## Listing of Claims:

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Claims 1-8 (Canceled).

9. (Currently Amended) A wander generator for generating a clock signal having wander which satisfies a desired time deviation characteristic, comprising:

center frequency information setting means for setting data for determining a center frequency of the clock signal;

characteristic information setting means for setting characteristic information of the desired time deviation characteristic;

a fluctuating signal sequence generator unit for generating a fluctuating signal sequence having a power spectrum density distribution characteristic of frequency fluctuations corresponding to the desired time deviation characteristic based on the characteristic information set by said characteristic information setting means;

an adder for adding the data set by said center frequency information setting means to the fluctuating signal sequence output from said fluctuating signal sequence generator unit;

a direct digital synthesizer for outputting a frequency signal corresponding to an output of said adder; and

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a clock signal output circuit for waveform shaping an output signal of said direct digital synthesizer to output a clock signal;

wherein said fluctuating signal sequence generator unit comprises:

noise generating means for generating a white noise signal based on a pseudo random signal;

impulse response processing means for calculating an impulse response of a transfer function for approximating a power spectrum of the white noise signal output from said noise generating means to the power spectrum density distribution characteristic of the frequency fluctuations based on the characteristic information set by said characteristic information setting means; and

convolution processing means for convoluting a result of the calculation by said impulse response processing means with the missourians white noise signal output from the noise generating means to generate the fluctuating signal sequence having the power spectrum density distribution characteristic of the frequency fluctuations.

Claim 10 (Canceled).

- 11. (Previously Presented) A wander generator according to the claim 9, wherein said impulse response processing means corrects the impulse response with a correction function corresponding to an error between the power spectrum density distribution characteristic of the frequency fluctuations and the transfer function.
- 12. (Previously Presented) A wander generator according to claim 9, wherein said convolution processing means preferentially performs a product sum calculation for smaller absolute values of the result of the calculation for the impulse response.
- 13. (Previously Presented) A wander generator according to claim 9, wherein said impulse response processing means is configured to perform the calculation for the impulse response each time a white noise signal is output from the noise generating means; and

wherein said convolution processing means performs the convolution processing using the result of the calculation made each time by the impulse response processing means.

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14. (Previously Presented) A wander generator for generating a clock signal having wander which satisfies a desired time deviation characteristic, comprising:

center frequency information setting means for setting data for determining a center frequency of the clock signal;

characteristic information setting means for setting characteristic information of the desired time deviation characteristic;

a fluctuating signal sequence generator unit for generating a fluctuating signal sequence having a power spectrum density distribution characteristic of frequency fluctuations corresponding to the desired time deviation characteristic based on the characteristic information set by said characteristic information setting means;

an adder for adding the data set by said center frequency information setting means to the fluctuating signal sequence output from said fluctuating signal sequence generator unit;

a direct digital synthesizer for outputting a frequency signal corresponding to an output of said adder; and

a clock signal output circuit for waveform shaping an output signal of said direct digital synthesizer to output a clock signal;

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wherein said fluctuating signal sequence generator unit comprises:

noise generating means for generating a white noise signal based on a pseudo random signal;

data distributing means for distributing noise signals output from said noise generating means into respective signal paths in accordance with a plurality of bands into which a frequency range of the power spectrum density distribution characteristic of the frequency fluctuations is divided to output at rates corresponding to the respective bands;

weighting means for applying weights in accordance with a magnitude of spectrum of each of the bands into which the frequency band of the power spectrum density distribution characteristic is divided for the noise signals at the respective rates distributed by said data distributing means; and

combining means for combining the noise signals at the respective rates weighted by said weighting means to generate the fluctuating signal sequence having the power spectrum density distribution characteristic of the frequency fluctuations.

15. (Currently Amended) A wander generator according to claim 9, wherein said noise generating means comprises a plurality (m) of sets of pseudo random signal generating means

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for generating pseudo random codes of M sequence at initial phases different from one another, and is configured to collect outputs at predetermined stages of said respective pseudo random signal generating means to output an m-bit a parallel white noise signal of a plurality of bits.

Claims 16-22 (Canceled).

23. (Currently Amended) A wander generator according to claim 14, wherein said noise generating means comprises a plurality (m) of sets of pseudo random signal generating means for generating pseudo random codes of M sequence at initial phases different from one another, and is configured to collect outputs at predetermined stages of said respective pseudo random [[`]] signal generating means to output an m-bit a parallel white noise signal of a plurality of bits.